

Attorney Docket No. 5649-1277

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Hwang-hee Lee et al.

Serial No.: To Be Assigned

Filed: Concurrently Herewith

For: **METHODS OF MANUFACTURING SEMICONDUCTOR DEVICES HAVING  
A RUTHENIUM LAYER USING VIA ATOMIC LAYER DEPOSITION AND  
ASSOCIATED APPARATUS AND DEVICES**

Date: March 16, 2004

Mail Stop PATENT APPLICATION

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

**PRELIMINARY AMENDMENT**

Sir:

Prior to the examination of the above-referenced application, please enter the following amendments below. Applicants provide the present Preliminary Amendment pursuant to the rules stated in revised 37 C.F.R. 1.121 that became effective on July 30, 2003.

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**In the Title:**

Please replace the Title on page 1 of the specification with the following amended paragraph:

**-- METHODS OF MANUFACTURING SEMICONDUCTOR DEVICES  
HAVING A RUTHENIUM LAYER USING VIA ATOMIC LAYER DEPOSITION  
AND ASSOCIATED APPARATUS AND DEVICES --.**

Respectfully submitted,

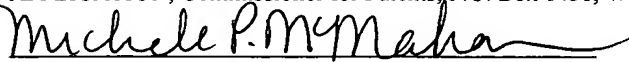


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Date of Deposit: March 16, 2004

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to MAIL STOP PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Washington, DC 20231.

  
Michele P. McMahan